

SOLVENT VAPOR INFILTRATION OF ORGANIC MATERIALS INTO
NANOSTRUCTURES

ABSTRACT OF THE DISCLOSURE

- 5 Spaces in a nanostructure can be filled with an organic material while in the solid state below T_m (without heating) by exposing the organic material to solvent vapor while on or mixed with the nanostructured material. The exposure to solvent vapor results in intimate contact between the organic material and the nanostructured material without having to expose them to possibly detrimental heat to melt in the organic material. Solution processing methods
10 need only to be employed to create bulk films while organic material infiltration can take place in the solid state after depositing the film.